

KATIE TALAVERA

KDV Decision Analysis LLC
katie.talavera@kdv-decisions.com
cell: 919-602-4430

PROFESSIONAL EXPERIENCE

KDV Decision Analysis LLC, North Carolina, USA & Yukon, Canada

Data Analyst and Project Manager (2022 – present)

- Provide data management, visualization, and analytic services at a project management level
- Oversee various natural resource projects from scoping to deliverables
- Lead and support application and R package development
- Co-develop and teach R programming courses

Terracon (formerly Environmental Services, Inc.), Raleigh, North Carolina, USA

GIS Analyst (2003 – 2022)

- Implement and maintain best practices for a variety of different projects
- Deliver timely and accurate turnaround on projects
- Perform complex analysis using various data types and processes
- Acquire, manipulate, analyze, and extract data from various sources
- Illustrate and publish project information in visual formats depending on client need
- Prepare needed technical documentation and correspondence
- Describe strategies and implementation of plans in the varying level of complexity required for all participants
- Design and manage geodatabases and data dictionaries to instill and maintain data quality
- Wetland delineation and Threatened and Endangered Species surveys and modeling
- Lead trainings, developed field data forms and schemas for cloud-based apps and field devices
- Create natural resource predictive models to identify potential impacts and assist in project scope budgeting
- Interview and work closely with fellow scientists to gather information to build various predictive models and graphical representations for reports and agency review
- Develop SOPS for data collection, data integration and product delivery, with tailored attributes for easy integration into reports and visuals
- Classification and regression modeling concepts and scripting
- Experience with Cognitive Computing and AI applications
- Regularly seeks opportunities with new technologies to better serve evolving goals of the group and total team

EDUCATION

Graduate Certificate, 2022, Business Analytics - UNC Greensboro, NC, USA

BSc, 2016, Geographic Information Systems - American Sentinel University, CO, USA

AAS, 2002, Landscape Architecture - Wake Tech Community College, NC, USA

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SKILLS and CERTIFICATIONS

Certifications:

Species distribution modeling with fuzzy logic – Transmitting Science, 2022

Evaluating and validating species distribution models with R – Transmitting Science, 2022

ArcGIS Pro workshop (NCAUG) -Esri, 2019

Building models for GIS analysis using ArcGIS – Esri 2014

Managing lidar data – Esri, 2014

Geodatabase topology – Esri, 2014

Software:

ESRI software including ArcPro, 3D Analyst, Arc Hydro and model builder, Tableau, R scripting, Microsoft Office Suite including Power BI, and additional experience with Python and HTML

SELECTED PAST PROJECTS

Created a weighted-overlay potential habitat model for Red-cockaded Woodpecker (RCW) and assisted in the design and creation of other Threatened & Endangered Species habitat models. (**ESI/Terracon, NCDOT- Project ATLAS, 2017-2022**)

Elicited and codified a cognitive engineering application for use by ophthalmologists and staff. (Independent Project, **Diabetic Retinopathy, 2022**)

Developed an image recognition application for solar site identification. (**Independent Project, 2022**)

Identified trends and patterns in temporal housing market data spanning from the great recession to 2021. The insights identified were visualized through storyboards in Tableau. (**Independent Project, 2021**)

Provided geodatabase oversight and delivery of weekly delineation results for linear multi-state natural resource assessments. (**ESI, various fiber and utility projects, 2012-2019**)

Stream and wetland mitigation desktop analysis site searches, wetland and stream field delineation and database production for major utility. (**ESI, Duke Energy, 2012-2019**)

Created web-based field data collection forms and schemas for habitat assessment verification record keeping for potential major utility project. (**ESI, 2014-2018**)

GIS Impact Analysis of Natural Resources, habitat evaluation and field surveys for Proposed, Endangered, Threatened, Sensitive and Locally Rare species on USFS and private lands for US 70 Havelock Bypass. (**ESI, NCDOT, 2002-2018**)

Natural Resource Investigations including wetland and stream delineation and Threatened & Endangered species surveys for portions of the Upper and Lower Neuse Greenway and Walnut Creek Trails. (**ESI, City of Raleigh, 2010-2014**)

Geodatabase Design and field data collection integration for NCWAM Wetland classifiers, Shearon Harris Reservoir. (**ESI, Duke Energy, 2010-2013**)

Red-cockaded Woodpecker Habitat Analysis Matrices assistance for foraging partitions.

Biological Assessment surveys for state-listed mussels and the Appalachian elktoe under the Emergency Watershed Protection Program for streambank repair areas following hurricane flooding. (**ESI, NRCS, 2005-2006**)

NCDOT 2,000 Acre Croatan Mitigation Bank well monitoring. (**ESI, NCDOT, 2002-2006**)